**Claims:** 

1. (Currently Amended) A software architecture embodied on one or more

computer-readable storage media, the software architecture for a distributed computing

system comprising:

an application configured to handle requests submitted by remote devices over a

network; and

a multi-tiered framework comprising:

an application program interface layer organized into multiple root

namespaces, the application program interface layer to present functions used by

the application to access network and computing resources of the distributed

computing system;

a common language runtime layer, wherein calls to the application program

interface layer are handed to the common language runtime layer supporting

applications written in one or more a plurality of different languages and translated

into an intermediate supported language, the application program interface layer

comprising various types related to constructing user interfaces, wherein the types

define a collection of classes, interfaces, delegates, enumerations, and structures

which belong to a group assigned a group name associated with one of the root

namespaces, and wherein each of the types is referenced by a hierarchical name

comprising a top level identifier prefixed to the group name; and

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an operating system layer or an object model service, wherein the calls handed to the common language runtime layer are executed locally by the operating system layer or the object model service.

2. (Previously Canceled).

3. (Original) A software architecture as recited in claim 1, wherein the

distributed computing system comprises client devices and server devices that handle

requests from the client devices, the remote devices comprising at least one client device.

4. (Original) A software architecture as recited in claim 1, wherein the

distributed computing system comprises client devices and server devices that handle

requests from the client devices, the remote devices comprising at least one server device

that is configured as a Web server.

5. (Currently Amended) A multi-tiered architecture including an application

program interface layer embodied on one or more computer readable storage media,

comprising:

multiple types related to constructing user interfaces;[[,]]

individual types being associated with one or more groups and being referenced by

one or more hierarchical names, wherein each hierarchical name includes a top level

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identifier prefixed to a group name assigned to one of the one or more groups, the types comprising:

classes which represent managed heap allocated data that has reference

assignment semantics;[[,]]

interfaces that define a contract that other types can implement;[[,]]

delegates that are object oriented function pointers; and[[,]]

structures that represent static allocated data that has value assignment

semantics and enumerations which are value types that represent named

constants;[[,]]

wherein the application program interface layer is associated with:

a common language runtime layer supporting applications written in

one or more of several a plurality of different languages and translated into

an intermediate language supported by the common runtime layer; and

included as part of a common language specification for local

execution by an operating system or an object model service, wherein the

common language runtime specification provides the ability to use a

particular code module written in a first programming language with a code

module written in a second programming language.

6. (Original) An application program interface as recited in claim 5, wherein

the classes comprise a forms class that represents a window or a dialog box that makes up

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an application's user interface.

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7. (Original) An application program interface as recited in claim 6, wherein the forms class has multiple members comprising one or more of: public static properties,

public static methods, public instance constructors, public instance methods, public

instance properties, public instance events, protected instance properties, and protected

instance methods.

8. (Original) An application program interface as recited in claim 5, wherein

the type comprising the interfaces comprises a button control interface that allows a

control to act like a button on a form.

9. (Original) An application program interface as recited in claim 5, wherein

the type comprising the interfaces comprises a container control interface that provides

functionality for a control to act as a parent for other controls.

10. (Original) An application program interface as recited in claim 5, wherein

the type comprising the interfaces comprises an editing notification interface.

11. (Original) An application program interface as recited in claim 5, wherein

the type comprising the interfaces comprises a data object interface that provides a format

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independent mechanism for transferring data.

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12. (Original) An application program interface as recited in claim 5, wherein

the type comprising the interfaces comprises a feature support interface that specifies a

standard interface for retrieving feature information from a current system.

13. (Original) An application program interface as recited in claim 5, wherein

the type comprising the interfaces comprises a message filter interface.

14. (Original) An application program interface as recited in claim 5, wherein

the type comprising the interfaces comprises a handle-exposing interface to expose

handles.

15. (Original) An application program interface as recited in claim 5, wherein

the type comprising the interfaces comprises one or more of the following interfaces:

a button control interface that allows a control to act like a button on a form;

a container control interface that provides functionality for a control to act as a

parent for other controls;

an editing notification interface;

a data object interface that provides a format independent mechanism for

transferring data;

a feature support interface that specifies a standard interface for retrieving feature

information from a current system;

a message filter interface; and

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a handle-exposing interface to expose handles.

16. (Currently Amended) A distributed computer software architecture

embodied on one or more computer-readable storage media, the distributed computer

software architecture comprising:

one or more applications configured to be executed on one or more computing

devices, the applications handling requests submitted from remote computing devices;

a networking platform to support the one or more applications;

an application programming interface to interface the one or more applications

with the networking platform, the application programming interface comprising various

types related to constructing user interfaces, individual types being associated with one or

more groups and being referenced by one or more hierarchical names, wherein each of

the hierarchical names includes a top level identifier prefixed to a group name assigned to

one of the one or more groups; and

a common language runtime layer supporting applications written in one or more

different languages and translated into an intermediate language supported by the

common runtime layer and included as part of a common language specification for local

execution by an operating system or an object model service.

17. (Previously Canceled).

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18. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the classes comprises a forms class that represents a window

or a dialog box that makes up an application's user interface.

19. (Original) A distributed computer software architecture as recited in claim

18, wherein the forms class has multiple members comprising one or more of: public

static properties, public static methods, public instance constructors, public instance

methods, public instance properties, public instance events, protected instance properties,

and protected instance methods.

20. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the type comprising the interfaces comprises a button control

interface that allows a control to act like a button on a form.

21. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the type comprising the interfaces comprises a container

control interface that provides functionality for a control to act as a parent for other

controls.

22. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the type comprising the interfaces comprises an editing

notification interface.

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23. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the type comprising the interfaces comprises a data object

interface that provides a format independent mechanism for transferring data.

24. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the type comprising the interfaces comprises a feature

support interface that specifies a standard interface for retrieving feature information

from a current system.

25. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the type comprising the interfaces comprises a message filter

interface.

26. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the type comprising the interfaces comprises a handle-

exposing interface to expose handles.

27. (Previously Presented) A distributed computer software architecture as

recited in claim 42, wherein the type comprising the interfaces comprises one or more of

the following interfaces:

a button control interface that allows a control to act like a button on a form;

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a container control interface that provides functionality for a control to act as a

parent for other controls;

an editing notification interface;

a data object interface that provides a format independent mechanism for

transferring data;

a feature support interface that specifies a standard interface for retrieving feature

information from a current system;

a message filter interface; and

a handle-exposing interface to expose handles.

28. (Previously Presented) A computer system including one or more

microprocessors and one or more software programs, the one or more software programs

utilizing an application program interface to request services from an operating system,

the application program interface including separate commands to request services

comprising services related to constructing user interfaces, wherein the application

program interface groups API functions into multiple namespaces that define a collection

of classes which represent managed heap allocated data that has reference assignment

semantics, interfaces that define a contract that other types can implement, delegates that

are object oriented function pointers, enumerations which are value types that represent

named constants and structures that represent static allocated data that has value

assignment semantics, the application program interface being associated with a common

language runtime layer supporting applications written in one or more different languages

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and translated into an intermediate language supported by the common runtime layer, wherein the type comprising the interfaces comprises one or more of the following

a button control interface that allows a control to act like a button on a form;

a container control interface that provides functionality for a control to act as a parent for other controls;

an editing notification interface;

a data object interface that provides a format independent mechanism for transferring data;

a feature support interface that specifies a standard interface for retrieving feature information from a current system;

a message filter interface; or

a handle-exposing interface to expose handles.

29. (Previously Presented) A method, comprising:

managing network and computing resources for a distributed computing system;

exposing a set of functions that enable developers to access the network and computing resources of the distributed computing system, the set of functions comprising functions to facilitate construction of user interfaces, wherein the user interfaces include windowing, menus, and dialogs, and wherein the functions are grouped into multiple

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interfaces:

namespaces that define a collection of classes which represent managed heap allocated

data that has reference assignment semantics, interfaces that define a contract that other

types can implement, delegates that are object oriented function pointers, enumerations

which are value types that represent named constants and structures that represent static

allocated data that has value assignment semantics; and

using a common language runtime layer supporting applications written in one or

more different languages and translated into an intermediate language supported by the

common runtime layer.

30. (Original) A method as recited in claim 29, further comprising receiving a

request from a remote computing device, the request containing a call to the set of

functions.

31. (Previously Presented) A method, comprising creating a namespace with

functions that enable drawing and construction of user interfaces, wherein the user

interfaces include windowing, menus, and dialogs, the namespace defining classes which

represent managed heap allocated data that has reference assignment semantics,

interfaces that define a contract that other types can implement, delegates that are object

oriented function pointers, structures that represent static allocated data that has value

assignment semantics, and enumerations which are value types that represent named

constants.

32. (Canceled).

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33. (Currently Amended) A method as recited in claim 31 claim 32, wherein the forms class has multiple members comprising one or more of: public static properties,

public static methods, public instance constructors, public instance methods, public

instance properties, public instance events, protected instance properties, and protected

instance methods.

34. (Original) A method as recited in claim 31, wherein the namespace defines

an interface comprising a button control interface that allows a control to act like a button

on a form.

35. (Original) A method as recited in claim 31, wherein the namespace defines

an interface comprising a container control interface that provides functionality for a

control to act as a parent for other controls.

36. (Original) A method as recited in claim 31, wherein the namespace defines

an interface comprising an editing notification interface.

37. (Original) A method as recited in claim 31, wherein the namespace defines

an interface comprising a data object interface that provides a format independent

mechanism for transferring data.

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38. (Original) A method as recited in claim 31, wherein the namespace defines

an interface comprising a feature support interface that specifies a standard interface for

retrieving feature information from a current system.

39. (Original) A method as recited in claim 31, wherein the namespace defines

an interface comprising a message filter interface.

40. (Original) A method as recited in claim 31, wherein the namespace defines

an interface comprising a handle-exposing interface to expose handles.

41. (Previously Presented) A software architecture as recited in claim 1,

wherein the various types comprise classes, interfaces, delegates, structures and

enumerations.

42. (Previously Presented) A distributed computer software architecture as

recited in claim 16, wherein the various types comprise classes, interfaces, delegates,

structures and enumerations.

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